



H Series Part A (Generic)

MSDS Number:

Revision Date: 2/10/2012

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

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Product Name: H Series Part A (Generic)
Revision Date: 2/10/2012
Version: 3
Common Name: Poly-Ceramic Liquid
Product Code: Part A

2 HAZARDS IDENTIFICATION

Route of Entry: Eyes, Ingestion, Inhalation, Skin
Target Organs: Central Nervous System, Kidneys, Liver
Inhalation: Slightly irritating to respiratory system. May produce symptoms of central nervous system depression including headache, dizziness, nausea, loss of balance, and drowsiness.
Skin: Irritating to the skin. May cause sensitization. Pre-existing skin disorders or other disorders may be further aggravated by overexposure.
Eye: Irritating to the eyes.
Ingestion: Ingestion may cause damage to the lining of the gastrointestinal tract. Prolonged exposure may damage kidneys and liver.

NOTE: VOC present as 1-chloro-4 - (trifluoromethyl)-benzene
1-chloro-4 - (trifluoromethyl)-benzene is listed as a VOC-exempt solvent

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
98-56-6	50-70%	Benzene, 1-chloro-4-(trifluoromethyl)-
	30-50%	Proprietary Formulation

4 FIRST AID MEASURES

Inhalation: Remove to fresh air. Keep person warm and at rest. If breathing is difficult, have trained person administer oxygen. If breathing stops, have trained person administer artificial respiration. Warning: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious place in recovery position. Maintain an open airway.



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Skin Contact: Seek medical attention immediately.
Wash thoroughly with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash all clothing before re-use. Seek medical attention immediately.

Eye Contact: Immediately flush with water for at least 15 minutes, forcibly holding eyelids apart. Seek medical attention immediately.

Ingestion: Do not induce vomiting. Do not give fluids. Seek medical attention immediately.

5 FIRE FIGHTING MEASURES

Extinguishing Media:
Carbon dioxide, dry chemical powder, water spray or appropriate foam.

Fire Fighting Procedures:
Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service, and eliminate sources of ignition. Use water spray to cool containers and avoid pressure build-up. Wear self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazard:
Contains combustible materials. Over-heated containers may rupture.

Sensitivity of Static Charge:
Electrostatic charge may build up during handling. Grounding of equipment is recommended.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Evacuate all unnecessary personnel and eliminate all sources of ignition. Keep put unnecessary and unprotected personnel. Do not touch or walk through spilled material. Provide adequate ventilation and avoid breathing vapors.

Environmental Precautions:
Contain liquids and prevent discharge into streams, soil, waterways, drains and sewers. Control or stop the loss of volatile material to the atmosphere. Do not apply water to the spill. Spills should be reported, if required, to the appropriate local, state, or federal agencies.

Stop leak if without risk. Move containers from spill area. Cover with an inorganic absorbent, such as vermiculite, perlite, ground clay, or sand; sweep up, and dispose according to local, state and federal regulations. Dispose of via a licensed waste disposal contractor.

7 HANDLING AND STORAGE

Handling Precautions:

- Use with adequate ventilation.
- Avoid fumes and avoid bodily contact with material.
- Wear appropriate personal protective equipment.
- Wash thoroughly after handling, avoid contact with eyes.
- Minimize the free fall distance of liquid when loading, unloading, or conveying to avoid spilling.
- Keep equipment clean and properly grounded at all times.
- Clean spills immediately.
- Eating, drinking and smoking should be prohibited where this material is handled.
- Do not reuse container.

Storage Requirements:

- Store in cool, dry place to prevent caking.
- Protect from breakage.
- Avoid excess aging.



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Keep away from sources of ignition (such as heat, spark, and flames).
Avoid moisture and static electricity discharges.
Keep tightly closed when not being used.
Label all containers appropriately.
Do not store near food or drinks.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits.

Personal Protective Equip: HMIS PP, C | Goggles, Gloves, Apron
HMIS PP, E | Safety Goggles, Chemical Gloves, Dust Respirator, Proper Clothing

Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use.

Emergency shower and eyewash facility should be in close proximity.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the regulations of environmental protection legislation.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Color varies with product number

Physical State: Liquid

Spec Grav./Density: Varies with color: 1.3 - 1.4 g/mL

Odor: Naphthalenic

Solubility: Negligible

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STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: High temperatures, sources of ignition.

Materials to Avoid: Strong oxidizing agents, strong acids, aliphatic amines, strong lewis acids, mineral acids, strong mineral bases and organic bases.

Hazardous Decomposition: Chlorine-containing gases, fluorine-containing gases, carbon dioxide, carbon monoxide and silicon oxides may be produced.

Hazardous Polymerization: Will not occur.

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TOXICOLOGICAL INFORMATION

Full toxicological information dependent on the product number.

98-56-6 Benzene, 1-chloro-4-(trifluoromethyl)-

ACUTE ORAL LD50 : (rat) >6.8 g/kg

ACUTE DERMAL LD50 : (rabbit) >2.7 g/kg

ACUTE INHALATION LC50 : (rat) 4479 ppm

PRIMARY SKIN IRRITATION : (rabbit) non-irritating

PRIMARY EYE IRRITATION : (rabbit) non-irritating



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A 28-day range-finding inhalation study was conducted in male and female Sprague-Dawley rats exposed to 0, 100, 250, 500, or 1000 ppm for 6 hr/day, 5 days/week. Clinical signs included increased activity at 250 ppm and above. Liver and kidney weights were increased. Microscopic changes in male kidneys stained positive for alpha-2-U globulin and the effects were considered not relevant to humans. Liver cell hypertrophy was seen at all exposures in males. Liver changes were consistent with clinical chemistry and PCBTF-blood level analysis and are believed to be an adaptive response, due to increased liver metabolism. Gavage studies in laboratory rodents for treatment periods of 14, 28, and 90 days have demonstrated significant liver and kidney toxicity at dose levels of 400 - 1000 mg/kg/day. Evidence of target organ toxicity included significant increases in relative liver and kidney weights, clinical chemistry values and histopathological findings. Renal toxicity which occurred only in male rats, was apparently due to "hyaline droplet" nephropathy and is therefore, highly unlikely to develop in man. The NOAEL's for all these studies range from 10 to 100 mg/kg/day. CNS effects were observed in rats exposed to PCBTF at or above 2822 ppm for 4 hours. A 90 day(13 week) rat inhalation toxicity and neurobehavioral study was conducted using exposures of 6 hrs/day, 5 days/week at concentrations of 0, 10, 50 and 250 ppm. There were no PCBTF-related macroscopic observations. Microscopically, PCBTF-related centrilobular hypertrophy was present only in the livers of males and females at the high dose (250 ppm) after 13-weeks of exposure. No centrilobular hypertrophy was observed at any level among recovery animals. There were no PCBTF-related effects on the nervous system as measured by a functional observation battery, muscular activity measurements and neuropathology. A NOEL of 50 ppm was established in this study for liver hepatocyte hypertrophy in male and female rats. If the hepatocyte hypertrophy observed is considered to be an adaptive response to PCBTF, the NOAEL for this study is 250ppm.

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ECOLOGICAL INFORMATION

Avoid release to surface waters and waste treatment systems. With the characteristics of its physical and chemical properties, it is unlikely that the matrix polymer represents a significant threat to aquatic or terrestrial environments.

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DISPOSAL CONSIDERATIONS

Do not mix this product with aqueous or other protic waste streams. This product is not regulated by the EPA. Disposal should be made in accordance to federal, state, and local regulations. Dispose of via a licensed waste disposal contractor.

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TRANSPORT INFORMATION

DOT Class: Not regulated #

US DOT: Not Regulated for Transport

IATA: Not Regulated for Transport

ICAO: Not Regulated for Transport

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REGULATORY INFORMATION

HCS Classification: Not Regulated

U.S. Federal Regulations: TSCA All components are listed or exempted

SARA 302/304/311/312/313: No products found

Canadian DSL Inventory Status: All components of this product are listed on the Canadian DSL Inventory List

*Benzene, 1-chloro-4-(trifluoromethyl)- (98566 50-70%) TSCA

REGULATORY KEY DESCRIPTIONS

TSCA = Toxic Substances Control Act

MSDS *GHS Safety Data Sheet*

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OTHER INFORMATION

U.S. Federal Regulations:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to all your employees.

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